

CLAIMS

What is claimed is:

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1. A miter saw comprising:
 - a base;
 - a table rotatably secured to said base;
 - a detent system disposed between said table and said base, said detent system being movable between a first position where said table is releasable held with respect to said base and a second position where said table is free to rotate relative to said base;
 - a locking mechanism separate from said detent system and disposed between said base and said table, said locking mechanism movable between a first position where said table is locked to said base and a second position where said table is free to rotate relative to said base.

2. The miter saw according to Claim 1, wherein said locking mechanism comprises:

a lever assembly pivotably secured to said table to move said locking mechanism between said first and second positions;

a locking bracket fixedly to said table and movable between a released position and a locked position; and

a locking rod disposed between said lever assembly and said locking bracket, said lever assembly and said locking rod being operable to move said locking bracket between said released and said locked positions.

3. The miter saw according to Claim 2, wherein said detent system further comprises:

a detent plate fixedly secured to one of said table and said base, said detent plate defining at least one detent slot; and

a detent spring fixedly secured to the other of said table and said base, said detent spring being biased toward said detent plate, said detent spring defining a detent adapted to engage said at least one detent slot.

4. The miter saw according to Claim 3, further comprising a detent override lever for moving said detent spring away from said detent plate.

5. The miter saw according to Claim 4, wherein said detent override lever is pivotally secured to said table.

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6. The miter saw according to Claim 4, wherein said detent override lever is adjacent said lever assembly.

7. The miter saw according to Claim 1, wherein said locking mechanism comprises:

a locking lever pivotably secured to said table to move said locking mechanism between said first and second positions;

a locking bracket fixedly secured to said table and movable between a released position and a locked position; and

a locking rod disposed between said locking lever and said locking bracket, said locking lever and said locking rod being operable to move said locking bracket between said released and said locked positions; and

said detent system further comprises:

a detent plate fixedly secured to one of said table and said base, said detent plate defining at least one detent slot; and

a detent spring fixedly secured to the other of said table and said base, said detent spring being biased against said detent plate.

8. The miter saw according to Claim 7, wherein said detent system further comprises a detent override lever pivotally secured to said other of said table and said base, said lever being operable to move said detent spring away from said detent plate.

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9. The miter saw according to Claim 7, wherein said detent override lever is adjacent said locking lever.

10. The miter saw according to Claim 1, wherein said detent system is biased into said first position.

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11. A miter saw comprising:

- a base;
- a table rotatably secured to said base;
- a detent system disposed between said table and said base, said detent system including:
 - a detent plate fixedly secured to one of said base and said table, said detent plate defining at least one detent slot;
 - a detent spring fixedly secure to the other of said base and said table, said detent spring being biased toward said detent plate, said detent spring engaging said at least one detent slot to releasable hold said table with respect to said base;
 - a locking mechanism disposed between said base and said table, said locking mechanism being separate from and parallel to said detent system, said locking mechanism including:
 - a lever pivotably secured to said table to move said locking mechanism between a locked and an unlocked position;
 - a locking bracket fixedly secured to said table and movable between a released and a retained position;
 - a locking rod disposed between said locking lever and said locking bracket, said locking rod moving said locking bracket to said retained position when said locking lever is pivoted to said locked position.

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12. The miter saw according to Claim 11, wherein said detent system further includes a detent overide lever pivotally secured to said other of said base and said table for moving said detent spring away from said detent plate.

13. The miter saw according to Claim 12, wherein said locking rod is parallel to said detent overide lever.

14. The miter saw according to Claim 13, wherein said locking rod is adjacent said detent overide lever.

15. The miter saw according to Claim 12, wherein said detent overide lever is biased away from said detent spring.

16. The miter saw according to Claim 12, wherein said detent overide lever is disposed adjacent said locking lever.